SIGNAMAX™
CONNECTIVITY SYSTEMS
An AESP Company

Network Connectivity Systems

24-Port 10/100/1000 Stackable Managed Switch + 4-SFP Dual Media Ports

Signamax Connectivity Systems' 065-7841 is the new flagship of the Signamax Ethernet switch product line. It provides non-blocking performance for 24 10/100/1000 Gigabit Ethernet connections, modern QoS and Tagged VLAN capabilities, and full SNMP management at a surprisingly low cost. Four Dual Media Gigabit Ethernet ports use auto-detected SFP modules for fiber optic switch interconnection at extended distances. Both ring and star Gigabit backbone network architectures are possible with full automatic failover. The included SNMP management package is complete and comprehensive, with web browser, local console, and Telnet remote terminal connections and real time updating. The 065-7841 also communicates with network management systems such as HP OpenView(tm) via SNMP for enterprise-wide status display, statistical monitoring, and switch control. Enhanced Layer 3 look-ahead routing features and IEEE 802.1p Quality of Service / 802.1Q Tagged VLAN / IP Type of Service support make the Signamax 065-7841 an excellent foundation for establishing or adding to an Enterprise network.

KEY FEATURES

- 4 Dual Media Ports for Flexible Fiber Connection.
- QoS Supports Layer 4 Classification.
- Port Mirroring for Enhanced Network Monitoring.
- 802.3ad Port Trunking for Bandwidth Aggregation.
- 802.1AD Link Layer Discovery Protocol (LLDP).
- Supports IGMP Snooping and IGMP Proxy.
- Supports Multicast VLAN Registration (MVR).
- Supports Access Control Lists (ACL) for policy-based management and traffic control.
- Q-in-Q VLAN for Performance & Security.
- 802.1x Access Control Improves Network Security.
- 802.1D Compatible & 802.1w Rapid Spanning Tree.
- 802.1s Multiple Spanning Tree.
- Broadcast/Multicast Storm Control.
- Supports Network Time Protocol (NTP).
- Supports IP-MAC-Port Binding.
- Supports DHCP Broadcasting Suppression to avoid network suspension or crashes.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
065-7841	24-Port 10/100/1000 Stackable Managed Switch + 4 SFP Dual Media Ports
065-79SXMG	1000BaseSX SFP Module 850 nm – MM/LC, 220 m Span on 62.5µm Fiber / 550 m Span on 50µm Fiber
065-79SXEDMG	1000BaseLX SFP Module 1310 nm – MM/LC, 2 km
065-79LXMG	1000BaseLX SFP Module 1310 nm – SM/LC, 10 km
065-79LXEDMG	1000BaseLX SFP Module 1310 nm – SM/LC, 40 km
065-79XDMG	1000BaseXD SFP Module 1550 nm – SM/LC, 40 km
065-79ZXMG	1000BaseZX SFP Module 1550 nm– SM/LC, 80 km
065-79EZXMG	1000BaseEZX SFP Module 1550 nm – SM/LC, 110 km

Note: Optional SFP Gigabit Ethernet Modules Sold Separately

SPECIFICATIONS

www.signamax.com

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SPECIFICATIONS

- **APPLICABLE STANDARDS**
  IEEE 802.3 10BaseT
  IEEE 802.3u 100BaseTX
  IEEE 802.3ab 1000BaseT
  IEEE 802.3z 1000BaseSX/LX
  IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
  IEEE 802.1p Priority (Quality of Service [QoS])
  IEEE 802.1D/802.1w/802.1s Spanning Tree & Rapid Spanning Tree Protocols
  IEEE 802.1Q Tagged VLAN with "Q-in-Q" support
  IEEE 802.3x Flow Control
  IEEE 802.3ad Link Aggregation
  IEEE 802.1x Access Control

- **PORTS**
  24 - RJ-45 10/100/1000BaseT/TX ports; ports 21, 22, 23 & 24 are Dual Media Gigabit Ethernet ports (RJ-45 10/100/1000BaseT/TX ports with corresponding Small Form-factor Pluggable [SFP] auto-detecting ports.)
  Broadcast/Multicast Storm Suppression enabled.
  Optional SFP Modules:
  065-79SXMG: 1000BaseSX SFP fiber optic module with LC multimode fiber connectors.
  Maximum distance: 220 meters with 62.5/125 micron fiber or 550 meters with 50/125 micron fiber.
  065-79SXEDMG: 1000BaseSX SFP fiber optic module with LC multimode fiber connectors.
  Maximum distance: 2 km with 62.5/125 micron fiber.
  065-79LXMG: 1000BaseLX SFP fiber optic module with LC singlemode fiber connectors.
  Maximum distance: 10 km with 9/125 micron fiber.
  065-79LXMGED: 1000BaseLX SFP with fiber optic module with LC singlemode fiber connectors.
  Maximum distance: 40 km with 9/125 micron fiber.
  Other SFP Modules are also available. Please visit www.signamax.com for additional details.

- **LED STATUS INDICATORS**
  Per Switch: Power, CPU
  Per Port: Link/Activity (separate for SFPs), 10/100/1000 speed for RJ-45 ports

- **PERFORMANCE**
  Latency: <4.5 µs (LIFO).
  Throughput: 1.48810 million pps (64-byte packets)
  Switch Fabric Speed: 48.0 Gbps (non-blocking, wire speed performance)
  MAC Address Capacity: 8 K MAC addresses
  Frame Buffer: 400 KB, on-chip
  Jumbo Frame Support: up to 9 Kbytes frame size
  Port Mirroring: Inbound and Outbound, assignable to any port

- **NETWORK SECURITY**
  IEEE 802.1x access control with RADIUS authentication
  Management Access Policy Control (ACL)

- **INTERNETWORKING PROTOCOLS SUPPORTED**
  LLDP (Link Layer Discovery Protocol):
  IEEE 802.1AB
  LACP (Link Aggregate Control Protocol):
  IEEE 802.1ad Port Trunking with 12 trunking groups; up to 16 ports for each group
  GVRP/GARP (GARP VLAN Registration Protocol / Generic Attribute Registration Protocol):
  IEEE 802.1Q with GVRP/ GARP
  Multicasting:
  Supports IGMP snooping including active and passive mode
  IEEE 802.1Q with GVRP/ GARP
  STP/RSTP/MSTP (Spanning Tree Protocol / Rapid Spanning Tree Protocol / Multiple Spanning Tree Protocol):
  IEEE 802.1d/1w/1s STP

- **MANAGEMENT**
  Access Methods: Console port access via RS-232C DB-9 local console serial port, Telnet remote access, SNMP agent, and Web browser.
  Software Upgrade Capability: Via Kermit/TFTP
  VSM (Virtual Stacking Management)
  Up to 16 switches can be managed via a single IP address.
  Can be a mix of Signamax 065-7841, 065-7840, 065-7726S, 065-7726SPOE, 065-7726SPOE-FP, and/or 065-7820POE switches within the 16 switch Virtual Stack.
  Virtual stacking via switch uplink channels; no extra proprietary stacking hardware required
  Distributed stacking; no physical central wiring closet is needed
  SNMP v1, v2c Network Management
  RFC 1213 MIB (MIB-II)
  Interface MIB
  Address Translation MIB
  IP MIB
  ICMP MIB
  TCP MIB
  UDP MIB
  SNMP MIB
  RFC 1757 RMON MIB
  Statistics Group 1
  History Group 2
  Alarm Group 3
  Event Group 9
  RFC 1493 Bridge MIB
  RFC 1643 Ethernet MIB
  Enterprise MIB

- **VLAN CAPABILITIES**
  Port-based VLAN
  IEEE 802.1Q Tag-based VLAN; up to 4,096 active VLANs possible
  Q-in-Q VLAN supported, to efficiently enable Subscriber Aggregation

- **QoS CAPABILITIES**
  Supports Layer 4 TCP/UDP port and ToS classification
  Supports 802.1p QoS with four level priority queue
  Supports priority in a Q-in-Q tag for Bandwidth Control
  Supports bandwidth rating per port
  Ingress and egress rate limits: 1000 Mbps in 1 Mbps increments

- **PHYSICAL CHARACTERISTICS**
  Dimensions: 17.4"W x 8.3"D x 1.73"H
  (442mm x 210mm x 44 mm)
  Standard 19-in rack mounting (hardware included)
  Weight: 7.5 lbs (3.4 kg)

- **ELECTRICAL CHARACTERISTICS**
  Maximum Wattage: 30 W.
  AC Input: 100 ~ 240 VAC, 50 ~ 60 Hz internal universal power supply

- **OPERATING ENVIRONMENT**
  Temperature: 32°F to 122°F (0°C to 50° C)
  Relative Humidity: 5 to 90%, non-condensing

- **SAFETY**
  FCC Part 15 Class A & CE Mark Approval

- **WARRANTY**
  Five years, including power supply

- Optional SFP Gigabit Ethernet Modules Sold Separately.

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